

**12EA6****SHARP-CUTOFF PENTODE**

7-PIN MINIATURE TYPE

*For use in automobile radio receivers operating directly
from 6-cell storage-battery systems***12EA6****GENERAL DATA****Electrical:**

Heater, for Unipotential Cathode:

Voltage range (DC). 10 to 15.9 volts
*This voltage range is on an absolute basis. For longest
 life, it is recommended that the heater be operated with-
 in the voltage range of 11 to 14 volts.*

Current (Approx.) at 12.6 volts . . . 0.19 amp

Direct Interelectrode Capacitances:⁰

Grid No.1 to plate. 0.04 max. μ f

Grid No.1 to cathode, grid No.3 &
 internal shield, grid No.2,
 and heater. 11 μ f

Plate to cathode, grid No.3 &
 internal shield, grid No.2,
 and heater. 4 μ f

Characteristics, Class A₁ Amplifier:

Heater Voltage. 12.6 volts

Plate Voltage 12.6 volts

Grid-No.3 Voltage 0 volts

Grid-No.2 Voltage 12.6 volts

Grid-No.1 Resistor (Bypassed) 10 megohms

Plate Resistance (Approx.). 32000 ohms

Transconductance. 3800 μ mhos

Plate Current 3.2 ma

Grid-No.2 Current 1.4 ma

Grid-No.1 Voltage (Approx.)
 for plate μ a = 10 -3.4 volts

Mechanical:

Operating Position. Any

Maximum Overall Length. 2-1/8"

Maximum Seated Length. 1-7/8"

Length, Base Seat to Bulb Top (Excluding tip). . . 1-1/2" $\pm$ 3/32"

Diameter. 0.650" to 0.750"

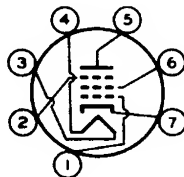
Dimensional Outline See General Section

Bulb. T5-1/2

Base. Small-Button Miniature 7-Pin (JEDEC No.E7-1)

Basing Designation for BOTTOM VIEW. 7BK

Pin 1 - Grid No.1
 Pin 2 - Grid No.3,
 Internal
 Shield
 Pin 3 - Heater



Pin 4 - Heater
 Pin 5 - Plate
 Pin 6 - Grid No.2
 Pin 7 - Cathode

⁰ Without external shield.

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AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE	16 max.	volts
GRID-No.2 (SCREEN-GRID) VOLTAGE	16 max.	volts
GRID-No.1 (CONTROL-GRID) VOLTAGE:		
Positive-bias value	0 max.	volts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode.	16 max.	volts
Heater positive with respect to cathode.	16 max.	volts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance.	12 max.	megohms
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